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**WO 03/000404 A1**

(54) Title: MATRIX SCREENING METHOD

(57) Abstract: The invention concerns a method which can be used to screen two or more repertoires of molecules against one another and/or to create combinatorial repertoires by combining two or more repertoires. In particular, the invention relates to a method whereby two repertoires of molecules can be screened such that all members of the first repertoire are tested against all members of the second repertoire for functional interactions. Furthermore, the invention relates to the creation and screening of antibody repertoires by combining a repertoire of heavy chains with a repertoire of light chains such that antibodies formed by the all combinations of heavy and light chains can be screened against one or more target ligands.

## INTERNATIONAL SEARCH REPORT

Interr	Application No
PCT/GB	01/05330

**A. CLASSIFICATION OF SUBJECT MATTER**

IPC 7	B01J19/00	G01N33/68	C12N15/10	C12Q1/68	C12Q1/70
	B01L3/00				

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B01J G01N C12N B01L C12Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>WO 00 56444 A (BLANKENSTEIN GERT ; TORSANA BIOSENSOR A S (DK); AHL THOMAS (DK); BO) 28 September 2000 (2000-09-28)</p> <p>page 5, line 23 -page 15, line 14</p> <p>page 24, line 29 -page 26, line 28</p> <p>page 30, line 17 -page 32, line 7; example 3</p> <p>---</p> <p>WO 93 09668 A (AFFYMAX TECH NV) 27 May 1993 (1993-05-27)</p> <p>page 14, line 13 -page 25, line 5; claims 1-17, 35-47; figures 1-4</p> <p>---</p> <p>---</p>	1-53
X		1-5, 7, 10-13, 17-19, 29-46, 52, 53

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

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- \*&\* document member of the same patent family

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## INTERNATIONAL SEARCH REPORT

Int'l	Application No
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
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X	WO 00 50172 A (CHOW ANDREA W ; BOUSSE LUC J (US); GALLAGHER STEVE (US); KNAPP MICH) 31 August 2000 (2000-08-31) claims 69-89, 109-120 ---	1-7
A		8-52
Y	EMILI A Q ET AL: "LARGE-SCALE FUNCTIONAL ANALYSIS USING PEPTIDE OR PROTEIN ARRAYS" NATURE BIOTECHNOLOGY, NATURE PUB. CO, NEW YORK, NY, US, vol. 18, no. 4, April 2000 (2000-04), pages 393-397, XP000919070 ISSN: 1087-0156 the whole document ---	20-28, 40-51
A		1-19, 29-39, 52,53
Y	PANDEY AKHILESH ET AL: "Proteomics to study genes and genomes" NATURE, MACMILLAN JOURNALS LTD. LONDON, GB, vol. 405, no. 6788, 15 June 2000 (2000-06-15), pages 837-846, XP002172041 ISSN: 0028-0836 page 842, column 1, paragraph 3 -page 845, column 2, paragraph 1; figures 4-7 ---	20-28, 40-51
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Y	WO 01 40803 A (HOLT LUCY JESSICA ; TOMLINSON IAN (GB); DIVERSYS LTD (GB); WILDT RU) 7 June 2001 (2001-06-07) page 21, line 1 -page 22, line 32; claims 1-29; examples 1-3 ---	20-27
A	WO 00 17624 A (CELLOMICS INC ; GOUGH ALBERT H (US); JUNG DAVID R (US); TAYLOR D LA) 30 March 2000 (2000-03-30) page 9, line 21 -page 11, line 23; claims 1-17; figures 1-10; examples 1,2 page 41, line 17 -page 47, line 31 -----	1-53

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

Intern	Application No
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